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Environment Canada - Environnement Canada

PCB contamination interim report 2

ACRES INTERNATIONAL LIMITED

TD 1045.S94 P421 1993 3409310A
NSDE

ACRES

February 23, 1993
8186.25H

Nova Scotia Department of Economic Development
1800 Argyle Street
7th floor
Halifax, Nova Scotia
B3J 2R7

Attn: G. Campbell

Dear Mr. Campbell:

Sydney Tar Ponds Clean-Up Project
PCB Contamination Interim Report 2

Please find enclosed a revised Table 4, Table 5, and figure 1R-2-2 Revision 1 for this report. These include some additional data points relating to analyses of earlier information.

The additional information does not change the overall conclusions of the report.

At this time further sampling is being carried out around three areas where PCB concentrations were found, one in the South Pond and two along the east side of the North Pond. Following a review of this data it will be forwarded as a supplement to the information in the two previous reports.

Yours very truly,

R. Hegar

IKH/mrm

H.F. MacDonald, P.Eng.
Project Manager

Enclosure

cc: Mr. I. Travers - Environment Canada
Mr. J. Terry - Sydney Tar Ponds Clean-Up Inc.
Mr. H. Windsor - Nova Scotia Department of the Environment
Mr. G. MacDougall - Nova Scotia Department of the Environment

IC
copies to Acres
25/2/93

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TABLE 4 (revised Feb. 23/93)
NORTH & SOUTH POND 1987-88
SAMPLE SUMMARY

Coordinate		Depth	Depth	PCB	In-Situ.	PCB	Sample	Other
North(+)	East(+)	Top (m)	Bottom (m)	Wet Conc. (mg/kg)	Moisture	Dry Conc. (mg/kg)	No. (TPM #)	Ref. Location
16,772,500	1,332,620	0.00	0.61	2.9	0.223	3.7	8337	BH-54
16,772,753	1,332,153	0.00	0.61	1.1	0.097	1.2	8338	BH-57
16,773,162	1,331,857	0.00	0.61	n.d.	0.203	n.d.	8339	BH-61
16,773,457	1,331,508	0.00	0.61	6.8	0.161	8.1	8340	BH-63
16,773,998	1,330,990	0.00	0.61	3.8	0.321	5.6	8341	BH-66
16,772,675	1,331,702	0.00	0.61	n.d.	0.166	n.d.	8342	BH-59
16,774,502	1,330,043	0.00	0.61	3.2	0.263	4.3	8343	BH-70
16,772,147	1,332,448	0.00	0.61	n.d.	0.294	n.d.	8344	BH-52
16,772,758	1,331,975	0.00	0.61	4.2	0.259	5.7	8345	BH-58
16,771,945	1,332,163	0.00	0.61	n.d.	0.299	n.d.	114	BH-51
16,773,998	1,330,990	0.00	0.61	6.8	0.323	10.0	126	BH-66
16,774,502	1,330,043	0.00	0.61	4.3	0.309	6.2	129	BH-70
16,774,380	1,329,682	0.00	0.61	4.5	0.287	6.3	130	BH-72
16,774,416	1,329,080	0.00	0.61	3.1	0.492	6.2	135	BH-77
16,774,442	1,330,398	0.00	0.61	2.4	0.163	2.8	139,140,141	BH-69
16,773,058	1,332,562	0.00	0.38	27.8	0.406	46.8	7261,7260	BH-56
16,773,058	1,332,562	0.00	0.61	9.1	0.288	12.8	120	BH-56
16,772,500	1,332,620	0.00	0.61	1.8	0.229	2.3	118	BH-54
16,772,675	1,331,702	0.00	0.61	n.d.	0.214	n.d.	144	BH-59

Notes:

1. The above table summarizes samples collected in 1987.
2. 'n.d.' denotes a non-detectable level which is below 1.0 mg/kg.
3. Where more than one TPM# is listed, the concentration and moisture contents have been calculated from the average of the listed samples.

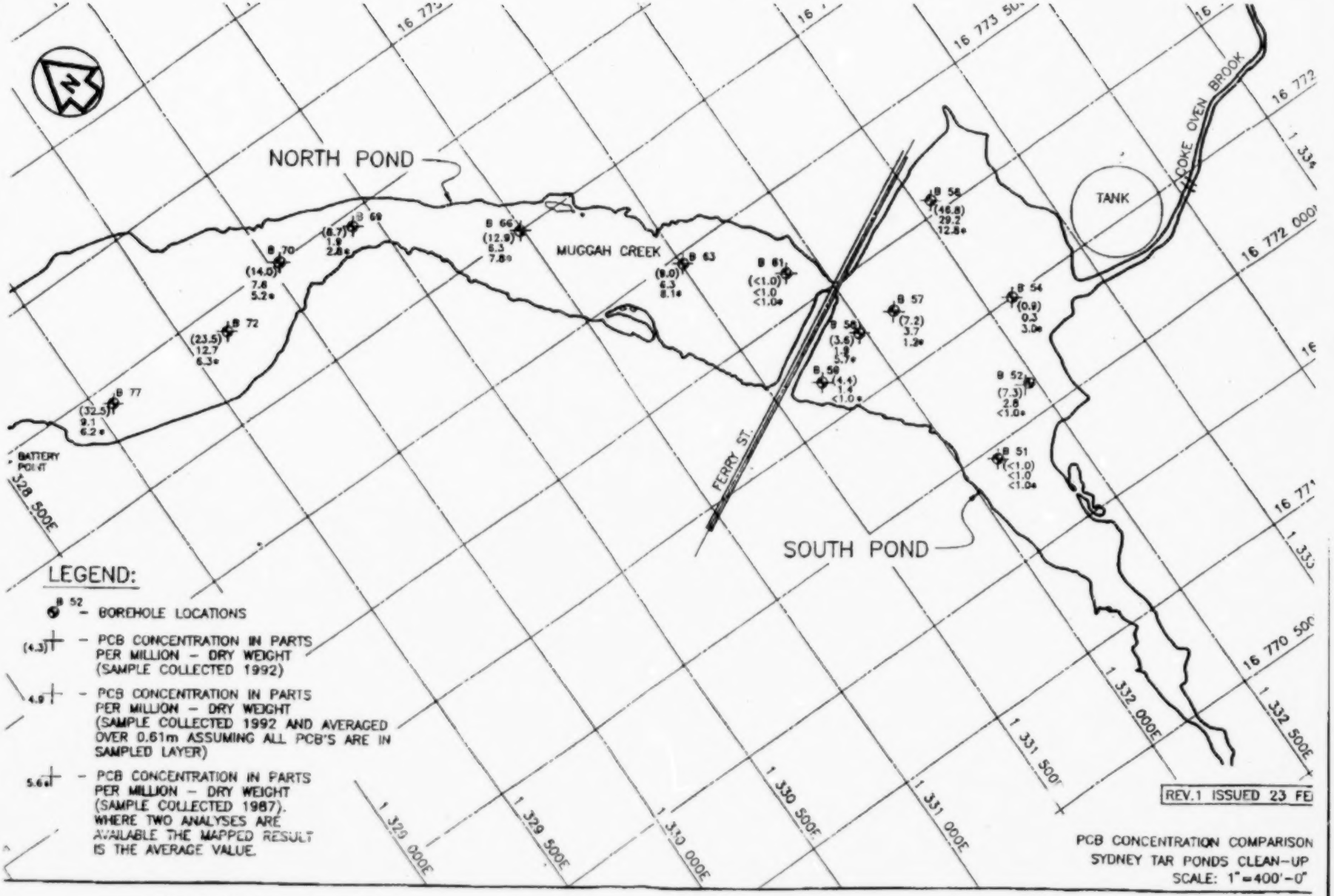
TABLE 5 (revised Feb. 23/93)
COMPARISON SUMMARY
SAMPLE PERIOD 1987 vs. 1992

Coordinate		Other	Collected in 1987 Tested in 1987		Collected in 1987 Tested in 1992		Collected in 1992 Tested in 1992		
North(+)	East(+)	Reference Location	PCB Dry Conc. (mg/kg)	Sample No. (TPM #)	PCB Dry Conc. (mg/kg)	Sample No. (TPM #)	PCB Dry Conc. (mg/kg)	PCB* Dry Conc. (mg/kg)	Sample No. (TPM #)
16,772,500	1,332,620	BH-54	2.3	118	3.7	8337	0.9	0.3	8188
16,772,750	1,332,150	BH-57			1.2	8338	7.2	3.7	8164
16,773,058	1,332,562	BH-56	12.8	120			46.8	29.2	7261,7260
16,773,162	1,331,857	BH-61			n.d.	8339	n.d.	n.d.	8203
16,773,457	1,331,508	BH-63			8.1	8340	9.0	6.3	8195
16,773,998	1,330,990	BH-66	10.0	126	5.6	8341	12.9	6.3	8202
16,774,502	1,331,702	BH-59	n.d.	144	n.d.	8342	4.4	1.4	8192
16,772,147	1,332,448	BH-52			n.d.	8344	7.3	2.8	8187
16,772,760	1,331,975	BH-58			5.7	8345	3.6	1.9	8166
16,771,945	1,332,160	BH-51	n.d.	114			n.d.	n.d.	8167
16,774,442	1,330,398	BH-69	2.8	139-141			8.7	1.9	8193
16,774,502	1,330,043	BH-70	6.2	129	4.3	8343	14.0	7.6	8198
16,774,380	1,329,682	BH-72	6.3	130			23.5	12.7	8201
16,774,416	1,329,080	BH-77	6.2	135			32.5	9.1	8200

Notes:

* Averaged over 0.61m assuming all PCB's are in sampled layer.

1. The depth at which samples were collected may vary between 1987 and 1992.
2. Dry weight PCB concentrations for samples #114 through #141 are estimates.


NORTH POND
MUGGAH CREEK
SOUTH POND
FERRY ST.
COKE OVEN BROOK
TANK
BATTERY POINT
B 77 (32.5) 9.1 6.2e
B 72 (23.5) 12.7 6.3e
B 70 (14.0) 7.8 5.2e
B 69 (8.7) 1.9 2.8e
B 66 (12.9) 6.3 7.8e
B 63 (9.0) 6.3 8.1e
B 61 (<1.0) <1.0 <1.0e
B 58 (46.8) 29.2 12.8e
B 57 (7.2) 3.7 1.2e
B 56 (3.6) 1.9 5.7e
B 54 (0.9) 0.3 3.0e
B 52 (7.3) 2.8 <1.0e
B 51 (<1.0) <1.0 <1.0e
B 50 (4.4) 1.4 <1.0e
528 500E
1 329 000E
1 329 500E
1 330 000E
1 330 500E
1 331 000E
1 331 500E
1 332 000E
1 332 500E
16 773 500
16 772 000
16 770 500
LEGEND:
B 52 – BOREHOLE LOCATIONS
(4.3) – PCB CONCENTRATION IN PARTS PER MILLION – DRY WEIGHT (SAMPLE COLLECTED 1992)
4.9 – PCB CONCENTRATION IN PARTS PER MILLION – DRY WEIGHT (SAMPLE COLLECTED 1992 AND AVERAGED OVER 0.61m ASSUMING ALL PCB'S ARE IN SAMPLED LAYER)
5.6e – PCB CONCENTRATION IN PARTS PER MILLION – DRY WEIGHT (SAMPLE COLLECTED 1987). WHERE TWO ANALYSES ARE AVAILABLE THE MAPPED RESULT IS THE AVERAGE VALUE.
REV.1 ISSUED 23 FE
PCB CONCENTRATION COMPARISON
SYDNEY TAR PONDS CLEAN-UP
SCALE: 1"=400'-0"